[**Myles Pratt**](https://old.reddit.com/r/EngineeringResumes/wiki/index)

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[**Education**](https://old.reddit.com/r/EngineeringResumes/wiki/index#wiki_education)

**B.S. Mechanical Engineering** | Milwaukee School of Engineering | GPA: 3.85 | Expected Dec 2026

[**Experience**](https://old.reddit.com/r/EngineeringResumes/wiki/index#wiki_work_experience)

**OSTEM Intern**, NASA Johnson Space Center – Houston, TX Jan 2025 – May 2025

* Will be supporting the development and maintenance of Space Stations in Low Earth Orbit.
* Focusing on simulation and analysis tool development along with analysis of spacecraft system performance in the area of Guidance, Navigation and Control (GN&C).

**Mechanical Engineering Co-Op**, [Regal](https://www.fstl1992.com/) Rexnord – Milwaukee, WI May 2024 [– Dec](https://www.reddit.com/r/EngineeringResumes/wiki/index#wiki_dates) 2024

* Optimized the manufacturing process of coupling guards by designing innovative fixtures on SolidWorks, which resulted in an estimated $60,000 annual cost savings.
* Analyzed test data for NPD Solar Farm gearboxes undergoing 10,000 torque cycles using both Python and Excel to organize and present findings, leading to the selection of a stable torque gear material for production.
* Collaborated cross-culturally with teams in Hyderabad, India and Apodaca, Mexico to conduct wear analysis on disassembled gearboxes being used in a Design of Experiment (DOE).

**Mechanical Engineering Intern,** [Blast](https://www.fstl1992.com/) Cleaning Technologies – West Allis, WI May 2023 – Aug 2023

* Conducted a 16-part Tolerance Stack-up to redesign 3 complex Blast Wheel assemblies on SolidWorks, which sped up production and saved 5 hours per week in assembly.
* Researched and developed automated mechatronic solutions for cast products in a newly opened foundry by collaborating with the Robotics Automation Specialist team.
* Designed initial CAD assemblies for clients to support Applications Department in generating customer proposals.

[**Mechanical Engineering Project**](https://old.reddit.com/r/EngineeringResumes/wiki/index#wiki_projects) **Experience**

**WSGC Collegiate Rocket Launch Competition |** Team of 6

**Competition Objective**: Design a Dual-Deploy Rocket that releases a probe at apogee (3000 ft), and lands on deployable legs, taking a 360° panoramic photo of the surrounding area.

* Developed the electronics bay design by creating a modular system of 3D printed casings to hold electronics in place undergoing 9 G’s of force in initial takeoff.
* Worked with Structures team to align fins of the rocket for precise design, performed preliminary ejection tests, and simulated the trajectory on Rock Sim to ensure design functionality.

**Result**: Voted best presentation by the competition and had a successful flight.

**Design Engineering Sailboat Project**

* Designed, prototyped, and manufactured a boom-to-mast connection for the Ensign (22ft long) boat fleet at the Milwaukee Community Sailing Center.
* 3D printed and prototyped 3 different revision designs on SolidWorks.
* Researched material and manufacturing methods to maintain an appropriate balance between cost and structural integrity and validated design with a University Professor.
* Laser cut and welded a stainless-steel final design that was presented and utilized on the entire boat fleet.

[**Skills**](https://old.reddit.com/r/EngineeringResumes/wiki/index#wiki_skills)

**Software**: MATLAB, SolidWorks, Excel, Python, Arduino IDE, RockSim, Multisim

**Manufacturing**: Mechatronics, 3D Printing, Laser Cutting, Welding, Lathe

[**Leadership**](https://old.reddit.com/r/EngineeringResumes/wiki/index#wiki_skills) **Experience | Co-Curricular Involvement**

**Treasurer |** MSOE High Powered Rocketry Club | Sept 2022 – present | 5 hours per week

**Leadership Board |** AIAA | Sept 2023 – present | 2 hours per week

**Undergraduate Researcher |** NASA Wisconsin Space Grant Consortium| October 2024 – present | 4 hours per week